Article Abstract

Title:	Multiobjective optimal allocation problem with probabilistic non-linear cost constraint
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Abstract:	This paper considers the optimum compromise allocation in multivariate stratified sampling with non-linear objective function and probabilistic non-linear cost constraint. The probabilistic non-linear cost constraint is converted into equivalent deterministic one by using Chance Constrained programming. A numerical example is presented to illustrate the computational procedure.
Keywords:	Multiobjective programming, Multivariate Stratified Sampling, Chance Constrained, Compromise allocation.